

UCI-0019  
(00-33)

IN THE CLAIMS

Claims 1-7 (Cancelled)

8. (Previously presented) A method for the manufacture of a conductive polymer composite, comprising

    impregnating a polymer with a vaporous halogen in the absence of a volatile organic compound; and

    exposing the impregnated polymer to a pyrrole-containing monomer vapor to form a conductive polymer composite.

9. (Previously presented) The method of claim 8, wherein the pyrrole-containing monomer vapor comprises pyrrole or pyrrole and N-methyl pyrrole.

10. (Previously presented) The method of claim 8, wherein the composite has a conductivity of about  $10^{-7}$  to about  $10^{-1}$  S/cm, inclusive.

11. (Previously presented) The method of claim 8, wherein the halogen is iodine.

12. (Previously presented) The method of claim 8, wherein the polymer is a foam.

13. (Previously presented) The method of claim 8, wherein the polymer is a polyurethane, a polybutadiene, or a styrene-butadiene copolymer.

Claims 14- 22 (Cancelled)